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MEAN WELL

SWITCHING POWER SUPPLY

ISO-9001 CERTIFIED MANUFACTURER

PD-45 SERIES

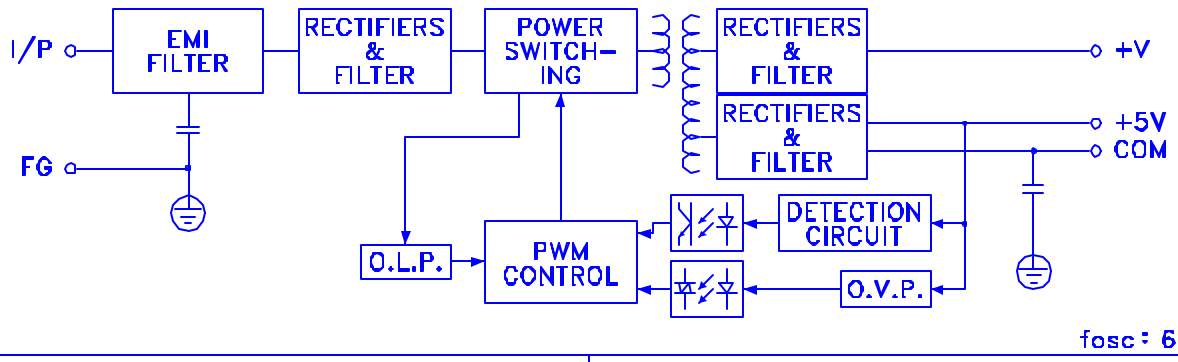
Jameco Part Number 194861 (PD-45A)

.LOW COST, HIGH RELIABILITY .COMPACT SIZE, LIGHT WEIGHT
.105°C OUTPUT CAPACITOR .100% FULL LOAD BURN-IN TEST
.INTERNATIONAL AC INPUT RANGE .BUILT IN EMI FILTER, LOW RIPPLE NOISE
.HIGH EFFICIENCY, LOW WORKING TEMPERATURE
.SOFT-START CIRCUIT, LIMITING AC SURGE CURRENT
.SHORT CIRCUIT, OVERLOAD, OVER VOLTAGE PROTECTED

MODEL / SPECIFICATION	PD-45A		PD-45B	
	CH1	CH2	CH1	CH2
DC OUTPUT VOLTAGE	5V	12V	5V	24V
OUTPUT V. TOLERANCE	±4%	±7%	±4%	±7%
OUTPUT RATED CURRENT	3.2A	2A	3.2A	1.2A
OUTPUT MIN. CURRENT	0.4A	0.2A	0.4A	0.2A
OUTPUT MAX. CURRENT	5A	2.5A	5A	1.8A
RIPPLE & NOISE	50mVp-p	120mVp-p	50mVp-p	150mVp-p
LINE REGULATION	±1%	±2%	±1%	±2%
LOAD REGULATION	±3%	±4%	±3%	±4%
RATED OUTPUT POWER	40W		44.8W	
MAXIMUM OUTPUT POWER	RATED OUTPUT POWER FOR CONVECTION; 52W WITH 18 CFM MIN. FORCED AIR			
EFFICIENCY	77%		78%	
DC VOLTAGE ADJ.	CH1:+10,-5%		CH1:+10,-5%	
INPUT VOLTAGE RANGE	90~264VAC 47~440Hz ; 120~370VDC			
AC CURRENT	1A/115V 0.7A/230V			
INRUSH CURRENT	COLD START 20A/115V 40A/230V			
LEAKAGE CURRENT	<0.5 mA			
OVERLOAD PROTECTION	53~75W OUTPUT POWER TYPE:PLUSING HICCUP SHUTDOWN RESET:AUTO RECOVERY			
OVER VOLTAGE PROTECTION	5.75~6.75VDC ON CH1			
TEMP. COEFFICIENT	±0.04% / °C (0~50°C) ON +5V OUTPUT			
SETUP, RISE, HOLD UP TIME	800ms, 20ms, 20ms			
VIBRATION	10~500Hz, 2G 10min./1cycle, PERIOD FOR 60min. EACH AXES			
WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC			
ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:500VDC / 100M Ohms			
WORKING TEMP., HUMIDITY	-10°C~+60°C(REFER TO OUTPUT DERATING CURVE), 20%~90% RH			
STORAGE TEMP., HUMIDITY	-20°C~+85°C, 10%~95% RH			
DIMENSION	127*76.2*30mm (L*W*H) PCB ONLY			
WEIGHT	0.23Kgs			
SAFETY STANDARDS	UL1950, TUV EN60950 APPROVED			
EMC STANDARDS	CISPR22 (EN55022), IEC1000-4-2,3,4,5 IEC1000-3-2,3 VERIFICATION			

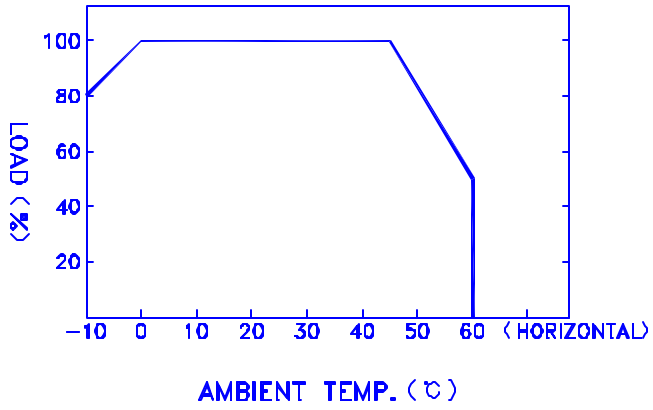
NOTE : 1.ALL PARAMETERS ARE SPECIFIED AT 230VAC INPUT, RATED LOAD, 25°C 70% RH. AMBIENT.
2.TOLERANCE GINCLUDE SET UP TOLERANCE, LINE REGULATION, LOAD REGULATION.
3.RIPPLE & NOISE ARE MEASURED AT 20MHz BY USING A 12" TWISTED PAIR TERMINATED WITH A 0.1uF & 47uF CAPACITOR.
4.LINE REGULATION IS MEASURED FROM LOW LINE TO HIGH LINE AT RATED LOAD.
5.OUTPUT PROVIDE UP TO MAXIMUM CURRENT, BUT RELATED TO MAXIMUM OUTPUT POWER.
6.EACH OUTPUT PROVIDE UP TO MAXIMUM CURRENT, BUT TOTAL LOAD CAN NOT EXCEED MAX. OUTPUT POWER.
7.MOUNTING HOLES M1 AND M2 SHOULD BE GROUNDED FOR EMI PURPOSES. DEC.28.98

BLOCK DIAGRAM

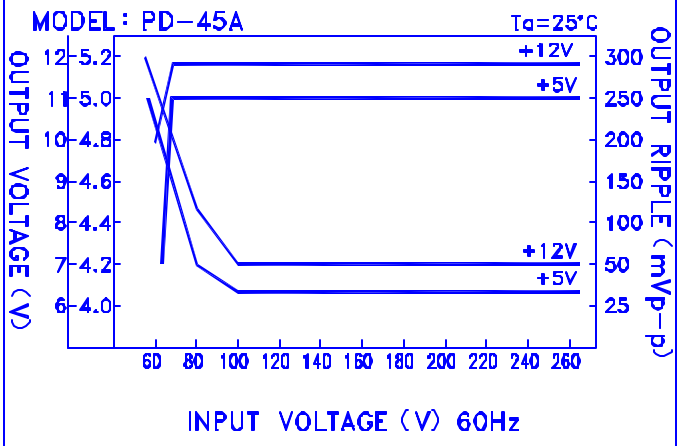


fosc : 65KHz

OUTPUT DERATING



STATIC CHARACTERISTICS



DIMENSION (mm)

- TERMINAL PIN NO. ASSIGNMENT
  - CN1 : MOLEX 5277-02
    PIN 1,2 : AC INPUT
  - CN2 : MOLEX 5273-06
    PIN 1 : DC OUTPUT +V
    PIN 2,3 : DC OUTPUT +5V
    PIN 4,5 : DC OUTPUT COM
    PIN 6 : DC OUTPUT N.C.
- MATING CONNECTORS
  - CN1,2 MATING CONNECTOR TYPE MOLEX 5195 AND 5239 SERIES OR EQUIVALENT WITH MOLEX 5194 AND 5225 OR EQUIVALENT CRIMP TERMINALS.